

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P743896

Luminaire Tested: LD4D20D010-EU4DR1515309030-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR1515309030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1609.7 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



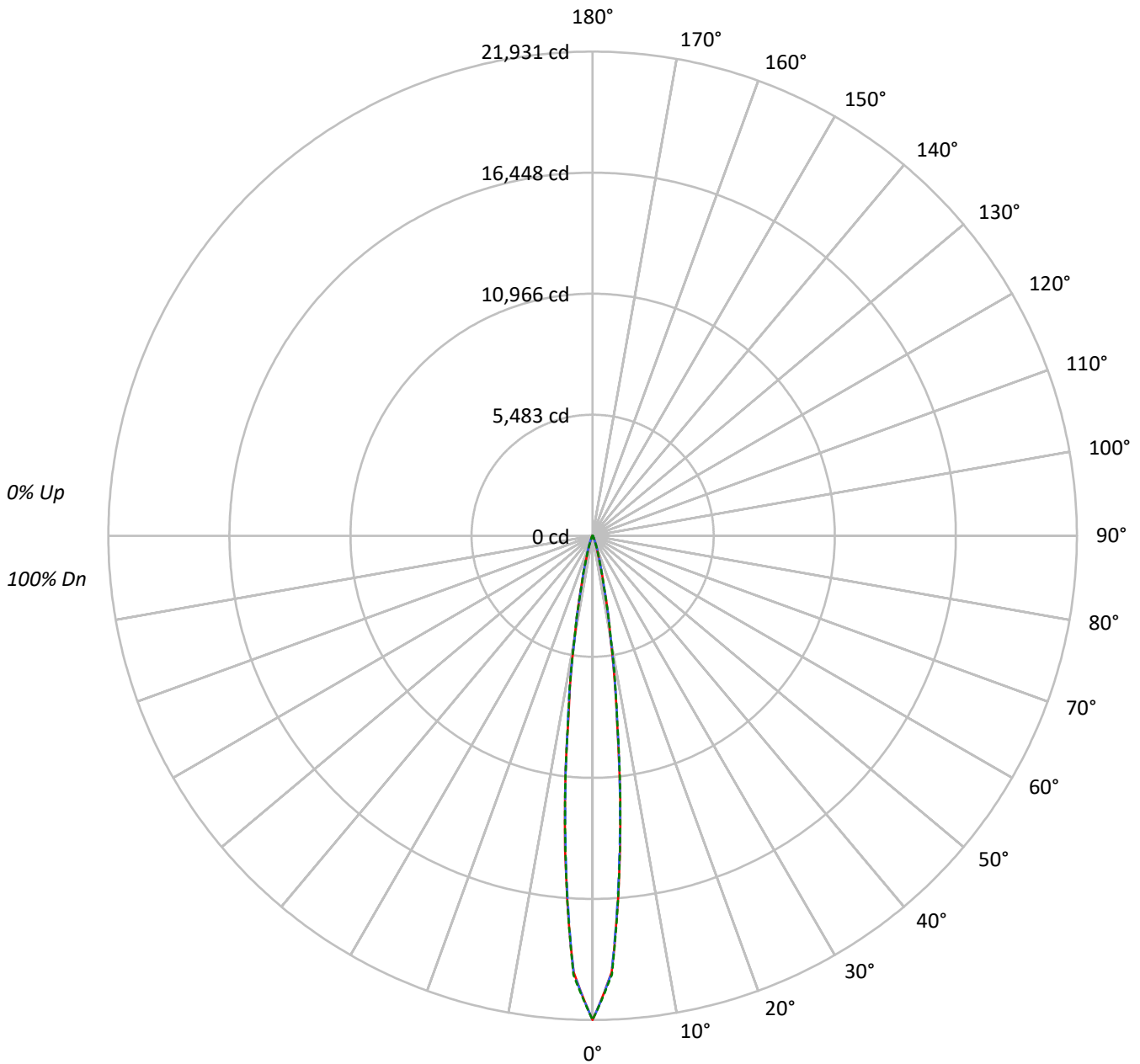
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2467664	2467664	2467664
5°	1450123	1431341	1442663
10°	432789	435821	442493
15°	107650	109752	106365
20°	32205	37295	32893
25°	11358	14466	11498
30°	4171	5489	4238
35°	2091	2360	2026
40°	1321	1449	1321
45°	973	1043	973
50°	772	772	772
55°	647	647	647
60°	520	520	520
65°	400	400	400
70°	336	336	336
75°	212	212	280
80°	150	150	150
85°	75	75	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1043 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1044.0	64.9
10°-20°	429.4	26.7
20°-30°	85.3	5.3
30°-40°	21.3	1.3
40°-50°	11.2	0.7
50°-60°	8.3	0.5
60°-70°	5.9	0.4
70°-80°	3.3	0.2
80°-90°	1.0	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1558.7	96.8
0°-40°	1579.9	98.2
0°-60°	1599.4	99.4
0°-90°	1609.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1609.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21931	21931	21931	21931	21931	
5°	14269	14122	14084	14182	14195	1042
15°	1239	1263	1264	1241	1225	425
25°	146	165	186	164	148	77
35°	29	31	32	31	28	20
45°	14	14	15	14	14	11
55°	9	9	9	9	9	8
65°	6	6	6	6	6	6
75°	3	3	3	3	4	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21930.9	21930.9	21930.9	21930.9	21930.9
2.5°	19782.6	19799.3	19805.8	19825.3	19897.7
5°	14268.8	14122.1	14084.0	14181.5	14195.4
7.5°	8452.3	8482.0	8590.6	8614.7	8527.5
10°	4638.3	4676.4	4670.8	4704.3	4742.3
12.5°	2372.1	2342.4	2333.1	2371.2	2318.2
15°	1239.4	1262.6	1263.6	1241.3	1224.6
17.5°	666.6	693.5	738.1	701.9	646.2
20°	393.6	417.8	455.8	426.1	402.0
22.5°	243.2	262.7	289.7	266.5	247.0
25°	145.8	165.3	185.7	164.3	147.6
27.5°	86.3	103.1	116.1	102.1	85.4
30°	55.7	65.0	73.3	64.1	56.6
32.5°	39.0	42.7	46.4	42.7	39.0
35°	28.8	30.6	32.5	30.6	27.9
37.5°	22.3	24.1	25.1	23.2	21.4
40°	18.6	19.5	20.4	19.5	18.6
42.5°	15.8	16.7	16.7	16.7	15.8
45°	13.9	13.9	14.9	13.9	13.9
47.5°	12.1	12.1	13.0	12.1	12.1
50°	11.1	11.1	11.1	11.1	11.1
52.5°	10.2	10.2	10.2	10.2	10.2
55°	9.3	9.3	9.3	9.3	9.3
57.5°	8.4	8.4	8.4	8.4	8.4
60°	7.4	7.4	7.4	7.4	7.4
62.5°	6.5	6.5	6.5	6.5	6.5
65°	5.6	5.6	5.6	5.6	5.6
67.5°	5.6	5.6	5.6	5.6	5.6
70°	4.6	4.6	4.6	4.6	4.6
72.5°	3.7	3.7	3.7	3.7	3.7
75°	2.8	2.8	2.8	2.8	3.7
77.5°	2.8	2.8	2.8	2.8	2.8
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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